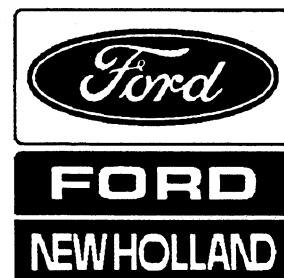


# FORD

## Operator's Manual

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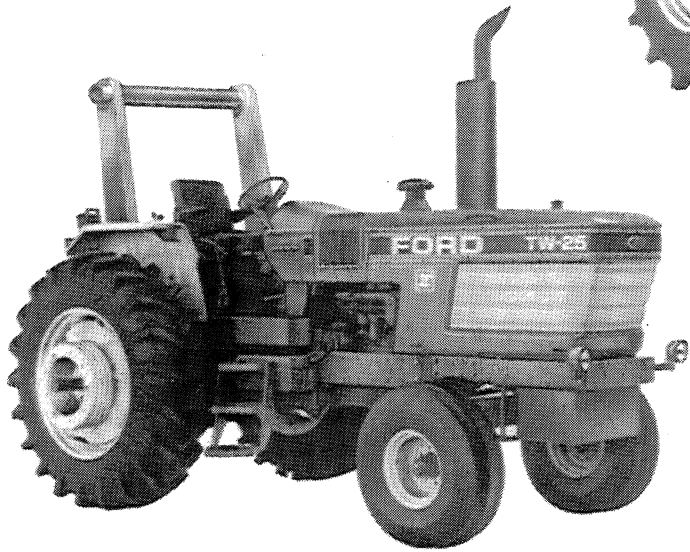
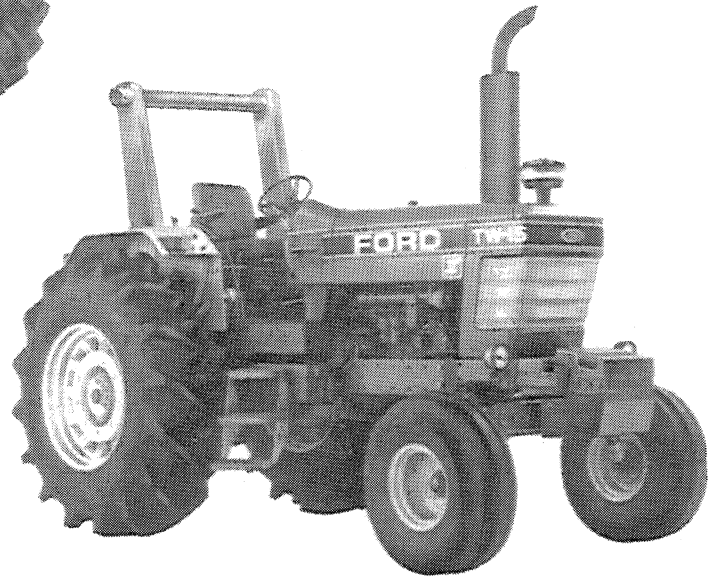
Tractors

TW-5, TW-15, TW-25, TW-35 II



42000540

Reprinted



## **DEAR CUSTOMER – PLEASE READ CAREFULLY**

The warranty coverage that is extended to your Ford Tractor is explained in the Warranty and Limitation of Liability, Ford Tractor and Equipment form. Your dealer will provide you with a copy of the warranty and retain a copy which you have signed. After you read the warranty, ask your dealer to explain any points that you may not understand.

Do not modify or alter or permit anyone else to modify or alter this tractor or any of its components or any tractor function without first consulting a Ford Tractor Dealer. If you have any questions regarding tractor modifications contact Ford Tractor Operations of Ford Motor Company.

A roll over protective structure (ROPS) and seat belt were standard equipment for the tractor at time of factory assembly. If the ROPS was deleted by the original purchaser or has been removed, it is recommended that you equip your tractor with a Roll Over Protective Structure (ROPS) and seat belt. ROPS and safety cabs are effective in reducing injuries during tractor overturn accidents. Overturning a tractor without a ROPS or safety cab can result in serious injury or death.

Roll Over Protective Structure (ROPS) safety cabs and seat belts are available for your Ford tractor. If your tractor is not equipped with a ROPS or safety cab and seat belt see your Ford Tractor Equipment Dealer.

Your safety and the safety of those around you depends upon the care and good judgment you use while operating this equipment. Read the safety precautions carefully.

For a complete list of the pre-delivery service checks performed by your dealer, refer to PRE-DELIVERY SERVICE on the upper portion of the following two pages. The first copy is your record of the service performed and the second copy, which is to be removed from the manual, is your dealer's record. **MAKE SURE THAT YOU AND THE DEALER SIGN BOTH COPIES.**

**After you have operated the tractor for 50 hours take your tractor and this manual to your selling dealer. He will perform the factory recommended 50 hour service. You will be responsible for the cost of lubricants, filters and other items replaced as part of normal maintenance. Prior to taking the tractor to your selling dealer for service, it is recommended that you contact them to determine any other charges for which you may be responsible.**

Your tractor is equipped with a new Ford engine. During manufacturing, the cylinder walls of some engines are sleeved. Both sleeved and unsleeved engines have the same operating characteristics.

## **PARTS AND SERVICE CATALOGUES AVAILABLE!**

Ford Tractor Operations is pleased to announce to owners of Ford tractors and equipment the availability of numerous parts and service catalogues.

DEALER COPY

PRE-DELIVERY SERVICE

CHECK AND ADJUST AS REQUIRED

INOPERATIVE SERVICE CHECKS:

- 1. Tire pressure
2. Air cleaner and hose connections
3. Radiator coolant level
4. All belt tensions
5. Battery cleanliness, vent openings, electrolyte level, and specific gravity not less than 1.240
6. Check all electrical cables and wire routings are away from sharp edges, moving parts and exhaust heat
7. Engine oil level
8. Hydraulic system (rear axle and transmission) oil level
9. Upper link, drawbar and pin in position
10. Power steering reservoir oil level
11. Brake pedal free travel
12. Clutch pedal free travel
13. Front wheel toe-in
14. Rear wheel-to-rim clamp bolts and lock nuts for tightness
15. Front hub nuts and rear wedge bolts for tightness
16. Fuel level
17. Sheet metal and paint condition
18. Lift rod leveling sleeves for proper operation
19. Drain diesel fuel filters
20. Cab door operation and seal condition

- 21. Cab door lock operation
22. Cab seat adjustment
23. Cab interior upholstery, trim and moldings
24. Cab window operation, window props and latches
25. Cab window seal condition
26. Cab sun visor operation
27. Cab tool box lid operation
28. Front axle support bolts for tightness
29. Front axle spindle nuts for proper tightness
30. Wheel to axle bolt torques
31. Front wheel drive hubs oil level
32. Front wheel drive differential oil level

SAFETY ITEMS CHECKS

- 1. ROPS installed
2. Seat belts installed
3. PTO master shield installed
4. SMV emblem installed
5. Safety decals installed
6. Neutral start switch operation
7. Park brake & latch operation
8. Flashing lights/tail lights operation
9. Operator's Manual
10. Park lock indicator properly positioned

OPERATIVE SERVICE CHECKS:

All operative checks are to be performed with the tractor at normal operating temperature.

- 1. Lights and instruments for proper operation
2. Fluid and oil leaks
3. Diesel maximum no-load speed and idle speed adjustments, and fuel shut-off
4. Throttle linkage adjustment
5. P.T.O. engagement and disengagement
6. Hydraulic System: Selection lever for draft and position control operation, Flow control operation, Draft control operation, Remote control valve including flow control operation
7. Windshield wiper/washer 2-speed operation
8. Heater temperature control
9. Pressurizer fan 3-speed operation
10. Air conditioner operation

PERFORMANCE SERVICE CHECKS:

- 1. Engine operation including throttle and governor operation
2. Transmission including clutch
3. Steering control
4. Differential lock engagement and disengagement
5. Brake action
6. All optional equipment and accessories

INSPECTION PERFORMED - WARRANTY EXPLAINED

TRACTOR MODEL NO.
TRACTOR SERIAL NO.

Owner's signature

date

dealer's signature

date

DEALER COPY

50-HOUR SERVICE CHECK AND ADJUST AS REQUIRED

INOPERATIVE SERVICE CHECKS

- 1. Tire pressure
2. Air cleaner and hose connections
3. Drain diesel fuel filter and sedimentor and bleed system
4. Radiator coolant level
5. All belt tensions
6. Battery cleanliness and vent openings, electrolyte level, and specific gravity not less than 1.240
7. Check all electrical cables and wire routings are away from sharp edges, moving parts and exhaust heat
8. Drain and refill engine oil
9. Replace engine oil filter(s)
10. Replace hydraulic oil filters
11. Clutch pedal free travel
12. Brake pedal free travel
13. Hydraulic system (rear axle and transmission) oil level
14. Power steering reservoir oil level
15. Rear wheel-to-rim clamp bolts, and lock nuts for tightness
16. Front wheel drive wheel to rim clamp bolts for tightness
17. Cylinder head bolt torque

- 18. Lubrication fittings
19. Cab door operation and seal condition
20. Cab door lock operation
21. Cab seat adjustment
22. Cab window operation, window props and latches
23. Cab window seal condition
24. Cab sun visor operation
25. Cab tool box lid operation
26. Brake oil level (except TW35)
27. Front axle spindle nuts for proper tightness
28. Wheel to axle bolt torques
29. Change front wheel drive hubs oil
30. Change front wheel drive differential oil

OPERATIVE SERVICE CHECKS:

- 1. Lights and instruments for proper operation
2. Fluid and oil leaks
3. Diesel maximum no-load speed and idle speed adjustments, and fuel shut-off
4. Throttle linkage adjustment
5. Neutral start switch

- 6. Hydraulic System: Lift control lever adjustment, Selection lever for draft and position control operation, Flow control operation, Draft control operation, Remote control valve including flow control operation
7. Windshield wiper/washer 2-speed operation
8. Heater temperature control
9. Pressurizer fan 3-speed operation
10. Air conditioner operation

PERFORMANCE SERVICE CHECKS:

- 1. Engine operation including throttle and governor operation
2. Transmission including clutch
3. Steering control
4. Differential lock engagement and disengagement
5. Brake action
6. All optional equipment and accessories

INSPECTION PERFORMED - WARRANTY EXPLAINED

TRACTOR MODEL NO.
TRACTOR SERIAL NO.

Owner's signature

date

dealer's signature

date

PRE-DELIVERY SERVICE

CHECK AND ADJUST AS REQUIRED

INOPERATIVE SERVICE CHECKS:

- 1. Tire pressure
2. Air cleaner and hose connections
3. Radiator coolant level
4. All belt tensions
5. Battery cleanliness, vent openings, electrolyte level, and specific gravity not less than 1.240
6. Check all electrical cables and wire routings are away from sharp edges, moving parts and exhaust heat
7. Engine oil level
8. Hydraulic system (rear axle and transmission) oil level
9. Upper link, drawbar and pin in position
10. Power steering reservoir oil level
11. Brake pedal free travel
12. Clutch pedal free travel
13. Front wheel toe-in
14. Rear wheel-to-rim clamp bolts and lock nuts for tightness
15. Front hub nuts and rear wedge bolts for tightness
16. Fuel level
17. Sheet metal and paint condition
18. Lift rod leveling sleeves for proper operation
19. Drain diesel fuel filters
20. Cab door operation and seal condition

- 21. Cab door lock operation
22. Cab seat adjustment
23. Cab interior upholstery, trim and moldings
24. Cab window operation, window props and latches
25. Cab window seal condition
26. Cab sun visor operation
27. Cab tool box lid operation
28. Front axle support bolts for tightness
29. Front axle spindle nuts for proper tightness
30. Wheel to axle bolt torques
31. Front wheel drive hubs oil level
32. Front wheel drive differential oil level

SAFETY ITEMS CHECKS

- 1. ROPS installed
2. Seat belts installed
3. PTO master shield installed
4. SMV emblem installed
5. Safety decals installed
6. Neutral start switch operation
7. Park brake & latch operation
8. Flashing lights/tail lights operation
9. Operator's Manual
10. Park lock indicator properly positioned

OPERATIVE SERVICE CHECKS:

All operative checks are to be performed with the tractor at normal operating temperature.

- 1. Lights and instruments for proper operation
2. Fluid and oil leaks
3. Diesel maximum no-load speed and idle speed adjustments, and fuel shut-off
4. Throttle linkage adjustment
5. P.T.O. engagement and disengagement
6. Hydraulic System: Selection lever for draft and position control operation, Flow control operation, Draft control operation, Remote control valve including flow control operation
7. Windshield wiper/washer 2-speed operation
8. Heater temperature control
9. Pressurizer fan 3-speed operation
10. Air conditioner operation

PERFORMANCE SERVICE CHECKS:

- 1. Engine operation including throttle and governor operation
2. Transmission including clutch
3. Steering control
4. Differential lock engagement and disengagement
5. Brake action
6. All optional equipment and accessories

INSPECTION PERFORMED WARRANTY EXPLAINED

TRACTOR MODEL NO. TRACTOR SERIAL NO.

Owner's signature

date

dealer's signature

date

50-HOUR SERVICE CHECK AND ADJUST AS REQUIRED

INOPERATIVE SERVICE CHECKS

- 1. Tire pressure
2. Air cleaner and hose connections
3. Drain diesel fuel filter and sedimentor and bleed system
4. Radiator coolant level
5. All belt tensions
6. Battery cleanliness and vent openings, electrolyte level, and specific gravity not less than 1.240
7. Check all electrical cables and wire routings are away from sharp edges, moving parts and exhaust heat
8. Drain and refill engine oil
9. Replace engine oil filter(s)
10. Replace hydraulic oil filters
11. Clutch pedal free travel
12. Brake pedal free travel
13. Hydraulic system (rear axle and transmission) oil level
14. Power steering reservoir oil level
15. Rear wheel-to-rim clamp bolts, and lock nuts for tightness
16. Front wheel drive wheel to rim clamp bolts for tightness
17. Cylinder head bolt torque

- 18. Lubrication fittings
19. Cab door operation and seal condition
20. Cab door lock operation
21. Cab seat adjustment
22. Cab window operation, window props and latches
23. Cab window seal condition
24. Cab sun visor operation
25. Cab tool box lid operation
26. Brake oil level (except TW35)
27. Front axle spindle nuts for proper tightness
28. Wheel to axle bolt torques
29. Change front wheel drive hubs oil
30. Change front wheel drive differential oil

OPERATIVE SERVICE CHECKS:

- 1. Lights and instruments for proper operation
2. Fluid and oil leaks
3. Diesel maximum no-load speed and idle speed adjustments, and fuel shut-off
4. Throttle linkage adjustment
5. Neutral start switch

- 6. Hydraulic System: Lift control lever adjustment, Selection lever for draft and position control operation, Flow control operation, Draft control operation, Remote control valve including flow control operation
7. Windshield wiper/washer 2-speed operation
8. Heater temperature control
9. Pressurizer fan 3-speed operation
10. Air conditioner operation

PERFORMANCE SERVICE CHECKS:

- 1. Engine operation including throttle and governor operation
2. Transmission including clutch
3. Steering control
4. Differential lock engagement and disengagement
5. Brake action
6. All optional equipment and accessories

INSPECTION PERFORMED WARRANTY EXPLAINED

TRACTOR MODEL NO. TRACTOR SERIAL NO.

Owner's signature

date

dealer's signature

date

# FOREWORD

This Manual has been prepared to assist you in the correct procedure for running-in, operation and maintenance of your new Ford Tractor. The Manual covers tractors with and without cab and where obvious differences occur both versions are illustrated or described in the text.

Your tractor has been designed and built to give maximum performance, economy and ease of operation under a wide variety of operating conditions. Prior to delivery, the tractor was carefully inspected, both at the factory and by your Ford tractor dealer to ensure that it reaches you in optimum condition. To maintain this condition and ensure trouble-free operation, it is important that the routine services, as specified in this Manual, are carried out at the recommended intervals.

Read this Manual carefully and keep it in a convenient place for future reference. If at any time you require advice concerning your tractor, do not hesitate to contact your authorised Ford tractor dealer. He has factory trained personnel, genuine Ford parts and the necessary equipment to carry out your service requirements.

A vehicle identification plate is located on the framework behind the right hand radiator side panel. To gain access to the plate remove the side panel (Ford TW5 or TW15) or slide the panel forward (Ford TW25 or TW35). If your tractor is equipped with front wheel drive transmission, then a similar plate is affixed to the rear of the front axle casing. For convenience, the numbers shown on the plates should be recorded in the panels below and quoted to your Ford tractor dealer should the tractor require service.

|                |           |
|----------------|-----------|
|                |           |
| TRACTOR NUMBER |           |
| [ ]            |           |
| MODEL          | UNIT      |
| [ ]            | [ ]       |
| ENGINE         |           |
| [ ]            |           |
| TRANSMISSION   | REAR AXLE |
| [ ]            | [ ]       |
| HYD PUMP       | HYD LIFT  |
| [ ]            | [ ]       |

**Vehicle Identification Plate**

|                                  |                      |                    |
|----------------------------------|----------------------|--------------------|
| <b>Zahnradfabrik Passau GmbH</b> |                      |                    |
| Made in West Germany             |                      |                    |
|                                  | Type                 |                    |
|                                  | Serial-No            |                    |
|                                  | [ ]                  |                    |
| Parts List No                    | Total Ratio, Version |                    |
| [ ]                              | [ ]                  |                    |
| Oil                              | ltr                  | List of lubricants |
| [ ]                              | [ ]                  | TE-ML              |
| [ ]                              | [ ]                  | TE-ML              |
| [ ]                              | [ ]                  | TE-ML              |
| Customer's Code No               | [ ]                  |                    |

OM208

**Front Axle Identification Plate**

*Ford policy is one of continuous improvement, and the right to change prices, specification or equipment at any time without notice is reserved.*

*All data given in this book is subject to production variations. Dimensions and weights are approximate only and the illustrations do not necessarily show tractors in standard condition. For exact information about any particular tractor please consult your Ford tractor dealer.*

# SAFETY PRECAUTIONS

A careful operator is the best operator. Most accidents can be avoided by observing certain precautions. To help prevent accidents read and take the following precautions before operating the tractor. Equipment should be operated only by those who are responsible and instructed to do so.

## THE TRACTOR

1. Read the Operator's Manual carefully before using the tractor. Lack of operating knowledge can lead to accidents.
2. If your tractor is equipped with a ROPS or safety cab, use an approved Seat Belt for safe operation. Overturning a tractor can result in death or injury. If your tractor is not equipped with a seat belt, see your Ford Tractor Equipment Dealer.
3. If a front end loader is to be installed, always use a FOPS canopy to avoid injury from falling objects.
4. Use the handholds and step plates when getting on and off the tractor to prevent falls. Keep steps and platform cleared of mud and debris.
5. Do not permit anyone but the operator to ride on the tractor. There is no safe place for extra riders.
6. Replace all missing, illegible, or damaged safety decals.
7. Keep safety decals clean of dirt and grime.
9. The fuel oil in the injection system is under high pressure and can penetrate the skin. Unqualified persons should not remove or attempt to adjust a pump, injector, nozzle or any other part of the fuel injection system. Failure to follow these instructions can result in serious injury.
10. Continuous long term contact with used engine oil has caused skin cancer in animal tests. Avoid prolonged contact with used engine oil. Wash skin promptly with soap and water.

## OPERATING THE TRACTOR

## SERVICING THE TRACTOR

1. The cooling system operates under pressure which is controlled by the radiator cap. It is dangerous to remove the cap while the system is hot. Always turn the cap slowly to the first stop and allow the pressure to escape before removing the cap entirely.
2. Do not smoke while refuelling the tractor. Keep any type of open flame away. Wait for the engine to cool before refuelling.
3. Keep the tractor in good operating condition for your safety. An improperly maintained tractor can be hazardous.
4. To prevent fires or explosions keep open flame away from battery or cold weather starting aids. To prevent sparks which could cause explosion use jumper cables according to instructions.
5. Stop the engine before performing any service on the tractor.
6. Escaping hydraulic/diesel fluid under pressure can penetrate the skin causing serious injury.
  - **DO NOT** use your hand to check for leaks. Use a piece of cardboard or paper to search for leaks.
  - Stop the engine and relieve pressure before connecting or disconnecting lines.
  - Tighten all connections before starting the engine or pressurizing lines.
  - If fluid is injected into the skin obtain medical attention immediately or gangrene may result.
7. Do not attempt to service the air conditioning system. It is possible to be severely frostbitten or injured by escaping refrigerant. See your dealer for service.
8. Do not modify or alter or permit anyone else to modify or alter this tractor or any of its components or any tractor function without first consulting a Ford tractor dealer.
1. Apply the parking brake, place the P.T.O. lever in the "OFF" position, the lift control lever in the down position, the remote control valve levers in the neutral position, and the transmission in neutral before starting the tractor.
2. Do not start the engine or operate controls while standing beside the tractor. Always sit in the tractor seat when starting the engine or operating the controls.
3. Do not bypass the neutral start switch. Consult your Ford tractor dealer if your safety start controls malfunction. Use jumper cables only in the recommended manner. Improper use can result in a tractor runaway.
4. Avoid accidental contact with the gear shift lever while the engine is running. Unexpected tractor movement can result from such contact.
5. Do not get off the tractor while it is in motion.
6. Shut off the engine and apply the parking brake before getting off the tractor.
7. Do not park the tractor on a steep incline.
8. Do not operate the tractor engine in an enclosed building without adequate ventilation. Exhaust fumes can cause death.
9. If the power steering or engine ceases operating, stop the tractor immediately.
10. Pull only from the swinging drawbar or the lower link drawbar in the down position. Use only a drawbar pin that locks in place. Pulling from the tractor rear axle or any point above the axle may cause the tractor to upset.
11. If the front end of the tractor tends to rise when heavy implements are attached to the three-point hitch, install front end or front wheel weights. Do not operate the tractor with a light front end.
12. Always set the hydraulic selector lever in position control when attaching equipment and when transporting equipment. Be sure hydraulic couplers are properly mounted and will disconnect safely in case of accidental detachment of implement.
13. Do not leave equipment in the raised position.

# SAFETY PRECAUTIONS

## OPERATING THE TRACTOR (Continued)

### DRIVING THE TRACTOR

1. Watch where you are going especially at row ends, on roads, around trees and low hanging obstacles.
2. To avoid upsets drive the tractor with care and at speeds compatible with safety, especially when operating over rough ground, when crossing ditches or slopes, and when turning corners.
3. To provide two wheel braking lock the tractor brake pedals when transporting on roads.
4. Keep the tractor in the same gear when going downhill as used when going uphill. Do not coast or free wheel down hills.
5. Any towed vehicle whose total weight exceeds that of the towing tractor must be equipped with brakes for safe operation.
6. When the tractor is stuck or tyres are frozen to the ground, back up the tractor to prevent upset.
7. Always check overhead clearance, especially when transporting the tractor.
8. Dip the tractor lights when meeting a vehicle at night. Make sure the lights are adjusted to prevent blinding an oncoming vehicle operator.
9. North America only: Use the Flasher/Turn Signal lights and SMV sign when travelling on public roads, both day and night, unless prohibited by law.

### OPERATING THE P.T.O.

1. When operating P.T.O. driven equipment, shut off the engine and wait until the P.T.O. stops before getting off the tractor and disconnecting the equipment.
2. Do not wear loose clothing when operating the power take-off or when near rotating equipment.
3. When operating stationary P.T.O. driven equipment, always apply the tractor parking brake and block the rear wheels front and back.
4. To avoid injury, do not clean, adjust, unplug or service P.T.O. driven equipment when the tractor engine is running.
5. Make sure the P.T.O. guard is in position at all times and always replace the P.T.O. cap when the P.T.O. is not in use.

## DIESEL FUEL


1. Under no circumstances should gasoline, alcohol or blended fuels be added to diesel fuel. These combinations can create an increased fire or explosive hazard. In a closed container such as a fuel tank such blends are more explosive than pure gasoline. **Do not use these blends.**
2. Never remove the fuel cap or refuel with the engine running or hot.
3. Do not smoke while refueling or when standing near fuel.
4. Maintain control of the fuel filler pipe nozzle when filling the tank.
5. Do not fill the fuel tank to capacity. Allow room for expansion.
6. Wipe up spilled fuel immediately.
7. Always tighten the fuel tank cap securely.
8. If the original fuel tank cap is lost, replace it with a Ford approved cap. A non-approved, proprietary cap may not be safe.
9. Keep equipment clean and properly maintained.
10. Do not drive equipment near open fires.
11. Never use fuel for cleaning purposes.
12. Arrange fuel purchases so that winter grade fuels are not held over and used in the spring.

### SAFETY CAB OR FRAME (Where fitted)

If your Ford tractor is equipped with a safety cab or frame it must be maintained in a serviceable condition. Be careful when driving through doorways or working in confined spaces with low headroom.

#### Under no circumstances:

1. — — — modify, drill or alter the safety frames or safety cab in any way as doing so could render you liable to legal prosecution.
2. — — — attempt to straighten or weld any part of the main frame or retaining brackets which have suffered damage. By doing so you may weaken the structure and endanger your safety.
3. — — — secure any parts on the main frame or attach your safety cab or frame with other than the special high tensile bolts and nuts specified.
4. — — — attach chains or ropes to the main frame or cab for pulling purposes.
5. — — — take unnecessary risks even though your safety cab or frame affords you the maximum protection possible.

Whenever you see this symbol  it means:

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



Thank you so much for reading.  
Please click the “Buy Now!”  
button below to download the  
complete manual.



After you pay.

You can download the most  
perfect and complete manual in  
the world immediately.

Our support email:

[ebooklibonline@outlook.com](mailto:ebooklibonline@outlook.com)